

4. A_Four SimpleCalc

Program Name: A_Four.java

Input File: a_four.dat

This problem demonstrates a very simple command line calculator using the codes listed below. Your job is to write a program to evaluate the results of the commands listed.

The codes used are listed below, where X indicates a single capital letter that indicates a storage location, and Y is an integer value within the standard range of a byte value:

DEF X Y - Assign the Y value into the X variable indicated
STO X - Store the current memory value into the X variable indicated
REC X - Place the value of X into current memory
ADD X - Add the X value into current memory
SUB X - Subtract X from current memory
MUL X - Multiply current memory by X
DIV X - Integer divide current memory by X
PRN X - Output value contained in the variable X indicated, followed by a linefeed.

Input: A series of commands, each on one line, each command representing one of the calculation codes listed above.

Output: Show the results of each PRN command during the series of commands.

Sample Input:

```
DEF A 1
DEF B 2
DEF C 3
PRN C
REC A
MUL C
STO A
PRN A
DIV B
STO C
PRN C
SUB A
STO B
PRN B
ADD A
PRN A
```

Sample output:

```
3
3
1
-2
1
```